

Date: 05-06-2014

Preli

First Year MBBS Examination

I MBBS Physiology Paper 1

Time: 3 hours

Max Marks: 50

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Explain in detail: (any two) (10)

- a) Cell Connections
- b) Steps in hemostasis
- c) Local hormones in gastrointestinal tract

2A. Write Short notes on (any two) (6)

- a) Functions of plasma proteins
- b) G protein as 2nd messenger
- c) Natural anti-coagulants

2B. Write briefly on (1 out of 2) (3)

- a) Lipid absorption in small intestine

b) Tissue macrophage system

3. Write Short notes on (any two) (6)

- a) Contents of pancreatic juice
- b) Complement system
- c) HCl secretion in stomach

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Section 2

4. Write Short notes on (any two) (10)

- a) Cardiovascular changes during exercise
- b) Regulation of respiration
- c) Shock

5A. Write Short notes on (any 2 out of 3) (6)

- a) Explain various factors affecting heart rate
- b) What are the peculiarities of coronary circulation?
- c) Periodic breathing

58. Write briefly on (any 1 out of 2) (3)

- a) Bainbridge reflex
- b) Oxygen hemoglobin dissociation curve

6. Write answers to the point in 2-3 lines (any six) (6)

- a) Define Einthoven's law
- b) What is steatorrhoea?
- c) Define land Steiner's law
- d) Why blood does not clot in the blood vessels?
- e) Name the neurotransmitter release at ganglion of autonomic nervous system
- f) Explain Bohr's effect
- g) Define all or none law
- h) What is Achlorhydria?
- i) Why Anaemia develops after gastrectomy?
- j) Why Bradycardia is seen in athletes?

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